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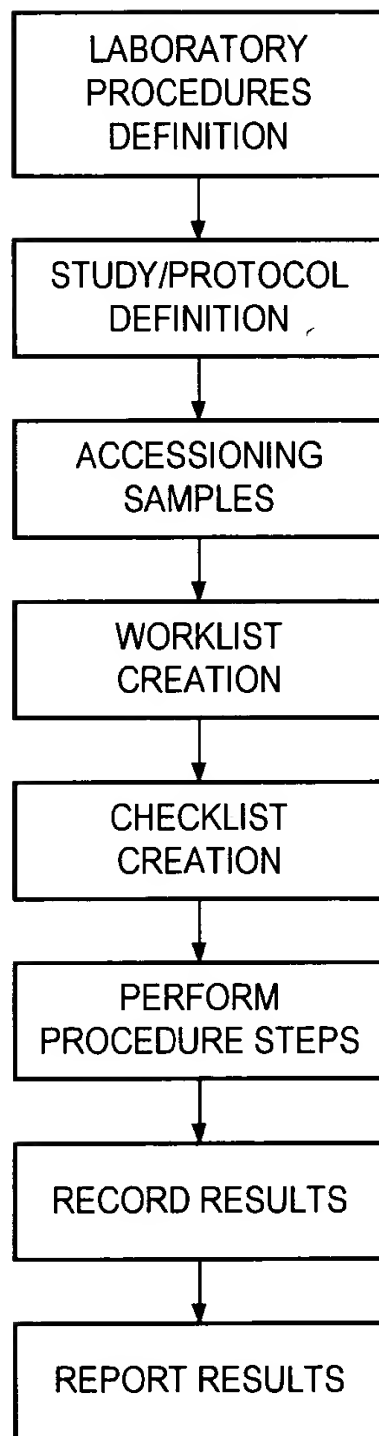


FIG. 1

Study Setup

Clinical Study Definition

- Describes Sponsors & Investigators
- Declares Subject Attributes to Capture Associates Specific Lab Procedures with a Clinical Study
- Defines Genotype Results to Report

Fig. 2

Fig. 2

Accessioning

Clinical Sample Registration

- Provides Validation Checks for Accession & Tube ID's
- Accommodates Multiple Sample Tubes
- Enforces Controlled Subject Attribute Terms
- Supports Sample Workflow

Accessioning

Study No.	Accession No.	Sponsor Sample Tube ID	Sample Tube ID	Received Date	Location
632-001	A100123	BA10112	PS22156	09-OCT-1999	
632-001	A100124	BA10113	PS22157	09-OCT-1999	
632-001	A100125	BA10114	PS22158	09-OCT-1999	
632-001	A100126	BA10115	PS22159	09-OCT-1999	

PPGx Study No. 632-001

Sponsor: A Co. (John Doe, Ph.D.)

Accession No. A100126

Date Received: 09-Oct-1999

Sample Type: Fresh Whole Blood

Tube 1: BA10115

Tube 2: PS22159

Tube 3: >=5

Tube 4: >=5

Sponsor Sample Tube ID: BA10115

PPGx Sample Tube ID: PS22159

Sample Tube Volume: >=5

Sample Condition: Good

Tube 1: BA10115

Tube 2: PS22159

Tube 3: >=5

Tube 4: >=5

Comments:

Subject Attributes

Subject Number: 15678

Gender: M

Birthdate: 18-Sep-88

Ethnicity: Black

Place Samples

New Save

Delete Cancel

Modify Close

Add Comments

Created: 10/9/99 20:03

Modified:

DNALIMS

Fig. 3

Sample Tracking

- ◆ Supports Multiple Container Classes
- ◆ Allows User Defined Container Geometries & Templates
- ◆ Maintains Sample & Container Location
- ◆ Permits Flexible Sample Loading & Rearrangement
- ◆ Tracks and Maintains Container & Sample Ownership

Place Sample

Container ID: RACK_11

Show

Map

6x12 rack

ROWS: 12 COLS: 6

	1	2	3	4	5	6	7
A	BA328382	BA328383	BA328384	BA328385	BA328386		
B	BA328382B	BA328383B	BA328384B	BA328385B	BA328386B		
C							
D							
E							
F							

Clear Container

Close

Sample Tube ID:

Assign

Position: A6

Fig. 4

- ## Sample Worklists
- ◆ Named Sample Collections
 - ◆ Assignable to Lab Scientists
 - ◆ Groups Samples for Common Lab Operations
 - Location
 - Check-in/Check-out
 - Lab Procedures

Worklists

Worklist Name	Assigned To	Created By	Created On	Mo
POC1005	DNALIMS	DNALIMS	10/5/99 13:54	DN
PS1SAMPLES	DNALIMS	DNALIMS	10/6/99 08:02	DN
TODAYS GENOTYPING	DNALIMS	DNALIMS	10/6/99 17:47	

Worklist Name: Assigned To:

Sample Tube ID	Accession #	PS1 Study No.	Location
S1	A1	PS1	Fr.1 Comp. Shelf Rack
S2	A2	PS1	Fr.1 Comp. Shelf Rack
S3	A3	PS1	Fr.1 Comp. Shelf Rack
S4	A4	PS1	Fr.1 Comp. Shelf Rack
S5	A5	PS1	Fr.1 Comp. Shelf Rack

Created: 10/6/99 08:02 Modified: 10/7/99 08:50

Containers:

Fig. 5

[illegible]

- Supports Standard Operating Procedures
- Maintains Uniform Laboratory Processes
- Records Chain of Custody
- Tracks Repeat Operations

Fig. 6

Fig. 6

PROCEDURES			
Procedure	Status	SOP Number	SOP Version
DNA Isolation; 3.mL whole blood, Purgene Kit	APPROVED	GEN9709	C
2D6 Allele "A" Identification	APPROVED	CYP2D6A	A
SpectroMax DNA quantitation	APPROVED	MAX9802	A
CYP2C9*3	APPROVED	CYP2C9-3	A
CYP2C9*2 Ver. 7	APPROVED	CYP2C9-2	A
CYP2C9*2 Ver. 6	APPROVED	CYP2C9-2	A

Procedure Name:

Procedure Description:
Laboratory Protocol for Identification of CYP2D6 "A" Allele by RFLP-PCR

Genes: Alleles:

SOP Number: SOP Version:

Status:

Created: Modified:

Fig. 7

Procedure Steps

Procedure: DNA Isolation, 3 mL whole blood, Purgene Kit

Print

Step	Step Input Type	Functional Type	Level
Thaw frozen blood	CheckBox		Batch
Gently mix sample	CheckBox		Batch
Transfer 3 mL of blood to lysis tube	Functional	Transfer	Batch
Add 9 mL of RBC lysis to RBC lysis tube	Functional	Reagent Addition	Batch
Mix and incubate 10 minutes at room temperature	CheckBox		Batch
Centrifuge 10 minutes at 3000 RPM	Text		Batch
Pour off supernatant into biohazardous waste container	CheckBox		Batch
Resuspend cell pellet by vortexing	CheckBox		Batch
Add 3 mL of Cell Lysis Solution	Functional	Reagent Addition	Batch
Sample can be stored for 18 months at Room Temp	Informational		Batch
STOP POINT	Informational		Batch

Step: Add 9 mL of RBC lysis to RBC lysis tube

Step Level: ☒ Sample ☐ Batch

Step Type: ☒ Informational ☐ CheckBox ☐ Text

Reagent Addition

Volume	9000
To final volume	FALSE
Reagent name	RBC Lysis S
Reagent prefix	RL
Volume optional	
Wave scanning	TRUE
Lock parameters	TRUE

Save Sequence

New Save Delete Cancel Close

Created: DNAIMS 10/5/99 09:00 Modified: DNAIMS 9/30/99 14:42

Procedure Steps

- ◆ A Single Step in a Lab Procedure
- ◆ Multiple Types:
 - Transfer
 - Dilution
 - Concentration Adjustment
 - Sample Preparation
- ◆ Highly Customizable
- ◆ Plug-in Architecture to Add New Types
- ◆ Interfaces to Automation

Fig. 8

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Results

Study Protocol: PSI

Accession No. A6

Status: OPEN

Query

Modify

Cancel

Save

Close

Sponsor: C Co. David Jones

Investigator:

Study Protocol	Accession No.	Status
PS1	A3	OPEN
PS1	A4	OPEN
PS1	A5	OPEN
PS1	A6	OPEN
PS1	A7	OPEN
PS1	A8	OPEN
PS1	A9	OPEN

Genotyping: DNA Purification Chain Of Custody

Gene	Status	Interpretation	Exclude	Final GT	Entered By	Entered On
CYP2C9	COMPLETE	EXTENSIVE METABOLIZER	<input type="checkbox"/>	W/A	DNALIMS	10/6/99 6:48

Gene: CYP2C9

Allele	Result	Batch	Procedure	Created By	Created On	Entered
m2	mt/wt	Batch	CYP2C9*2 Ver. 7	DNALIMS	10/6/99 6:09:48 PM	DNAL
m2	mt/wt	Batch	CYP2C9*2 Ver. 7	DNALIMS	10/6/99 6:09:48 PM	
m2	mt/wt		FINAL RESULT			

Genotype Results

- ◆ Accommodates Values for Multiple Genes, Alleles & Assays
- ◆ Provides Master Review by Accession Number
- ◆ Supports Acceptance & Final Approval by Study Director
- ◆ Imports Results Electronically or Manually

Fig. 9

Auditing

- ◆ Track Changes in Database
 - Study
 - Lab
- Procedures
 - Sample
 - Results
- ◆ Flexible Audit Reporting
- ◆ Chain of Custody by Accession

Audit Report									
Protocol Audit Trail	Audit ID	Protocol ID	Sponsor	STI	Sponsor Protocol Title	PP6X Study	PP6X Protocol Title	Created By	
STUDY PROTOCOL	885	61	A1A		Evaluation of	STUDY-1	x	DNALIMS	
	886	61	A1A		Evaluation of	STUDY-1	x	DNALIMS	
	887	61	A1A		Evaluation of	STUDY-1	x	DNALIMS	
	888	61	A1A		Evaluation of	STUDY-1		DNALIMS	
	889	61	A1A		Evaluation of	STUDY-1		DNALIMS	
	890	61	PHD-001		Evaluation of			DNALIMS	
	891	61	PHD-001		Evaluation of			DNALIMS	
	892	61	PHD-001		Evaluation of			DNALIMS	
	893	61	PHD-001		Evaluation of			DNALIMS	
	894	61	PHD-001		Evaluation of			DNALIMS	
	895	61	PHD-001		Evaluation of			DNALIMS	
	896	61	PHD-001		Evaluation of			DNALIMS	
	897	61	PHD-001		Evaluation of			DNALIMS	
	898	61	PHD-001		Evaluation of			DNALIMS	
	899	61	PHD-001		Evaluation of			DNALIMS	
	900	61	PHD-001		Evaluation of			DNALIMS	
	901	61	PHD-001		Evaluation of			DNALIMS	
	902	61	PHD-001		Evaluation of			DNALIMS	
	903	61	PHD-001		Evaluation of			DNALIMS	
	904	61	PHD-001		Evaluation of			DNALIMS	

Fig. 10

